



National Aeronautics and Space Administration

NASA Ames Research Center

**Thomas Edwards
Deputy Director
NASA Ames Research Center**

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National Aeronautics and
Space Administration



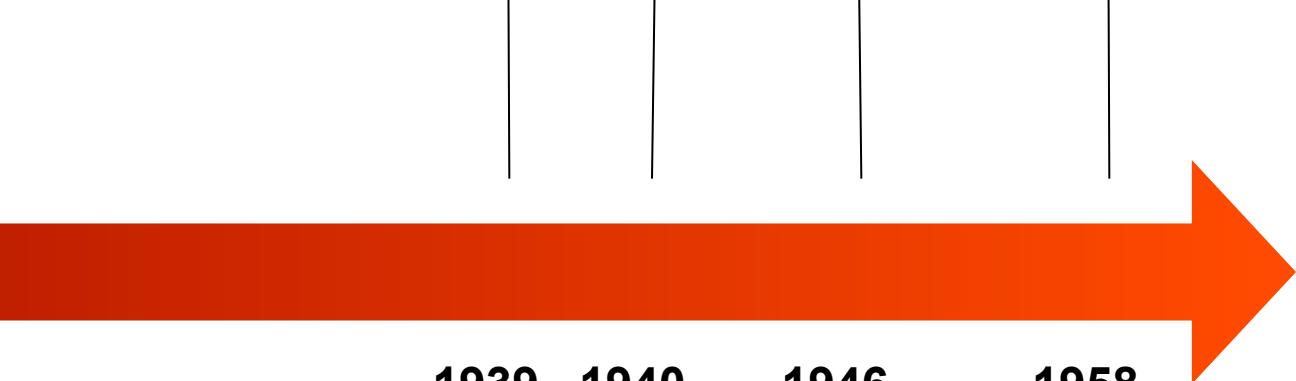
NACA Laboratories

NACA



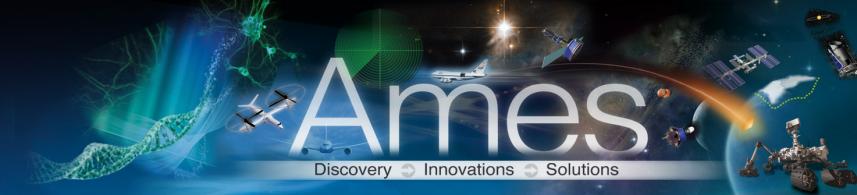
Joseph S. Ames

Langley

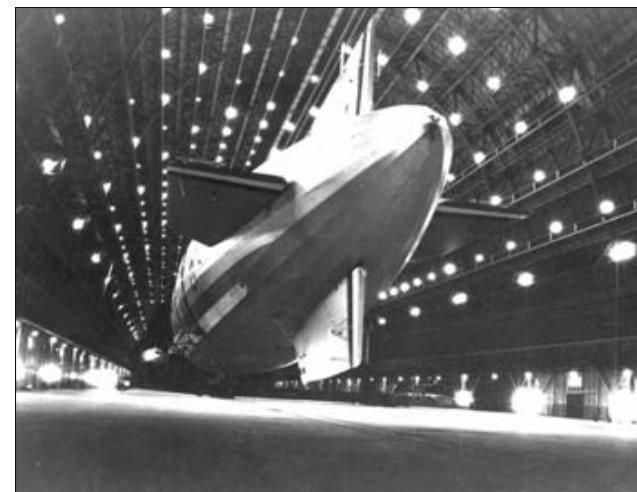




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1934 Macon & Hangar 1





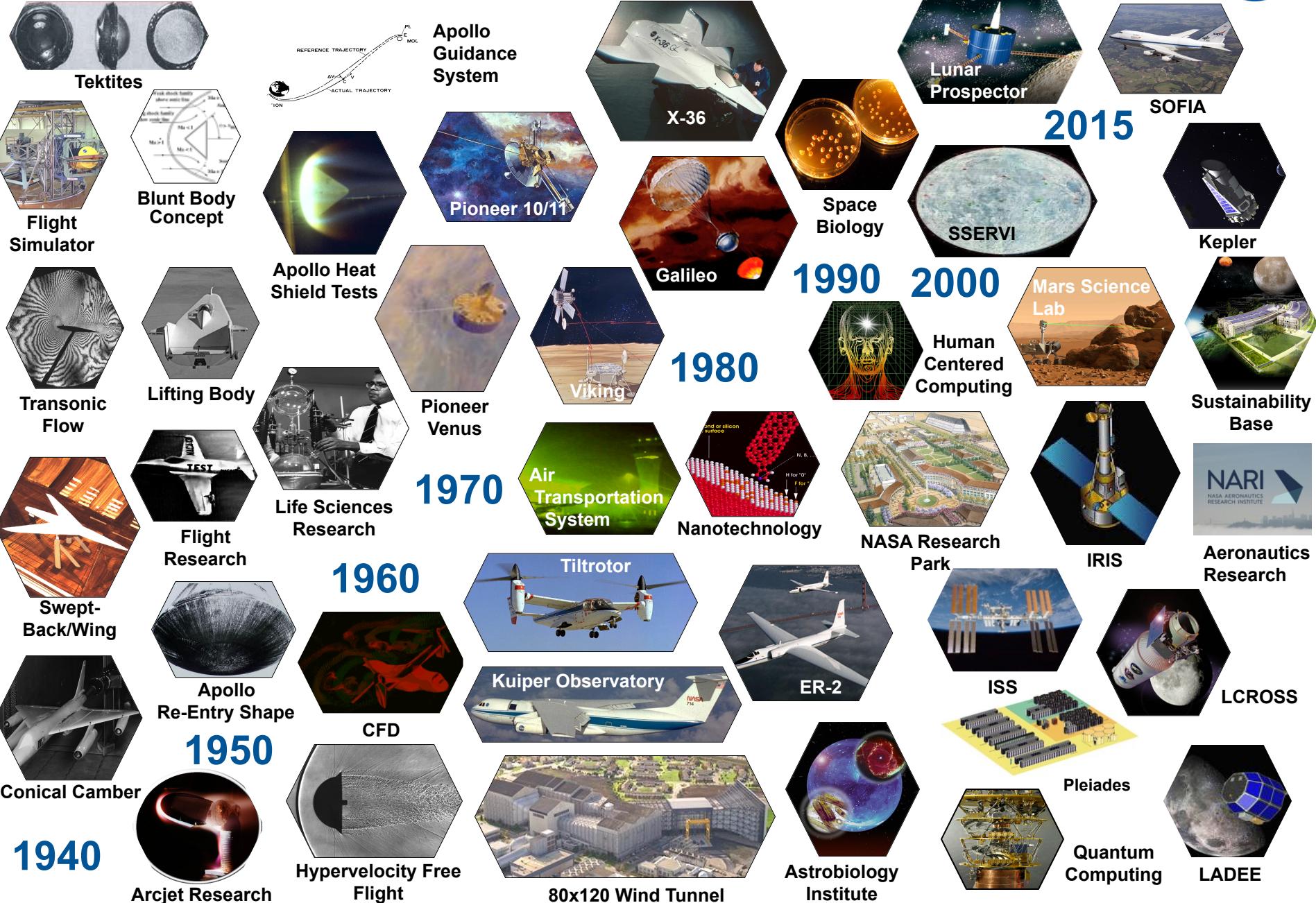
National Aeronautics and
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Aerial View of NASA Ames Research Center



75 Years of Innovation





National Aeronautics and
Space Administration



Ames Today



- *2480 employees*
- *\$900M + annual revenue
(including reimbursable)*
- *An additional >1000
students, summer 2014*

- ***Science***
 - *Space, Earth, Biological Sciences*
 - *Astrobiology, Lunar Science*
- ***Exploration Systems***
 - *Exploration Technology Development*
 - *Thermal Protection Systems*
 - *Supercomputing*
- ***Projects and Missions***
- ***Aeronautics & Aviation***
 - *NextGen Airspace Systems*
 - *Fundamental Aeronautics*
 - *Aviation Safety*
 - *Green Aviation*
- ***Affordable Small Satellites***
- ***Innovation, Education, &
Entrepreneurial Collaborations***
 - *NASA Research Park*



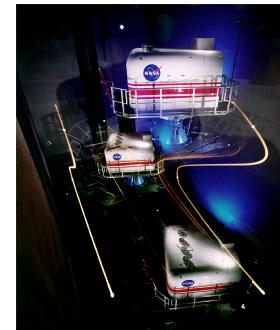
National Aeronautics and
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Current Active Facilities, 2012



National Full Scale Aerodynamic Complex, 80x120 Wind Tunnel



Vertical Motion Simulator



Small Spacecraft Development Facility



Unitary Plan Wind Tunnel



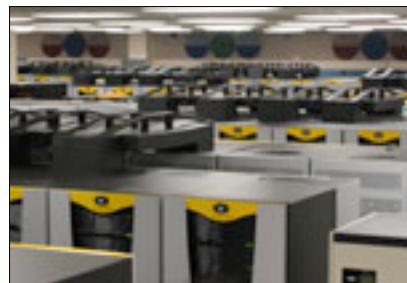
SOFIA



Machine Shops



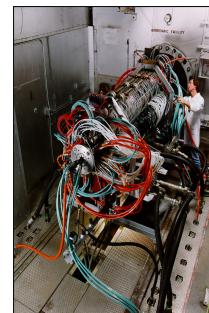
Small Satellite Lab



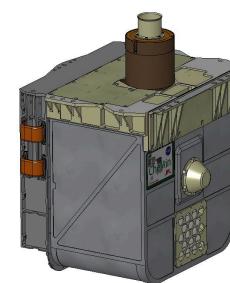
Pleiades - Columbia Super Computer



Ballistic Range



Arc Jets



MSL – Chem Lab



Air Traffic Management Lab



Astrobiology Institute

Virtual Institutes



National Aeronautics and
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NASA Research Park

Innovative Collaboration in Science, Engineering & Education

90+ Partners Today

University Associates

Google-North East Section

University of California/UARC-Bldg. 555

M2MI Corporation-Bldg.19

Carnegie Mellon University-Bldg. 23

San Jose State University

-Metropolitan Technology

Center in Bldg. 583C

Foothill-De Anza Community College

United Negro College Fund Special
Programs Corporation-Bldg.19

Space Technology Center

-San Jose State, Stanford, Santa Clara Univ.,

Utah State Univ. /Micro Satellite Classes

Kentucky Science & Technology Corporation-Bldg.19

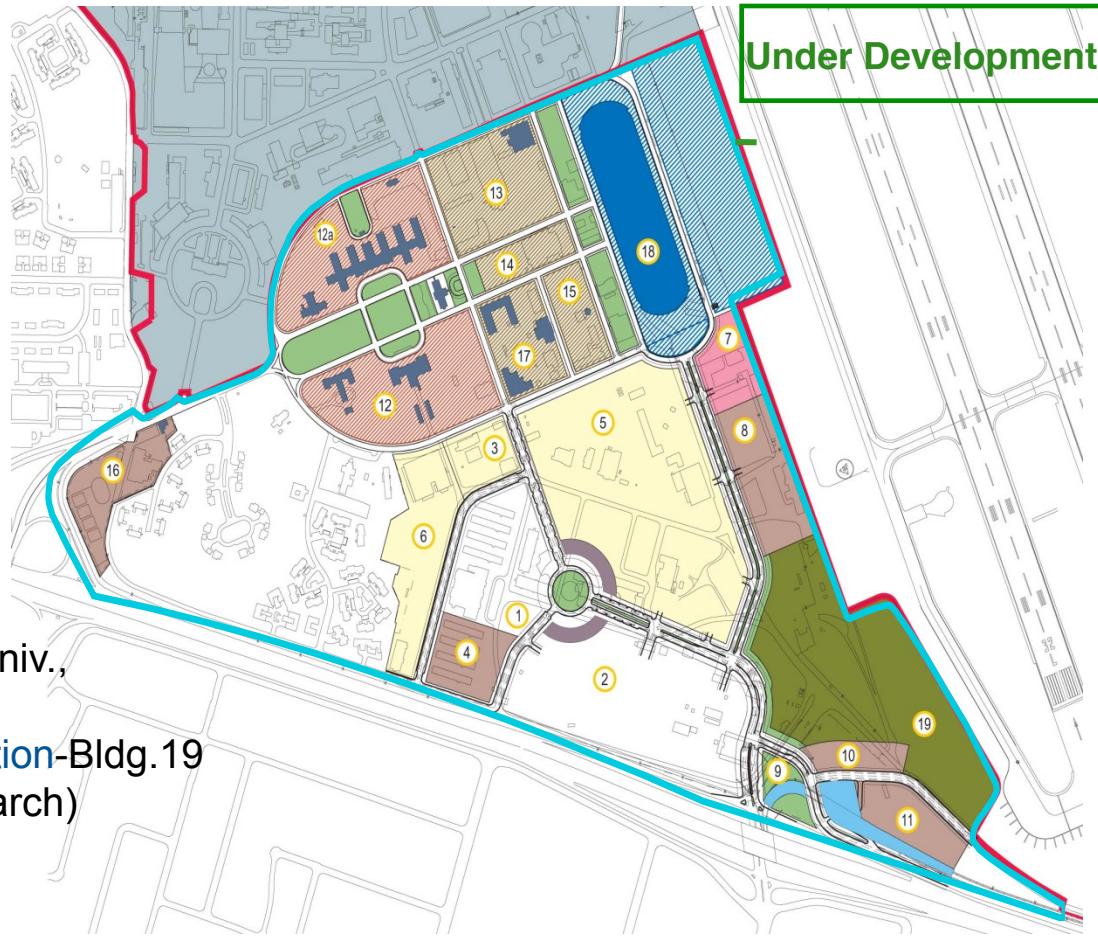
Bloom Energy-Bldg. 543 (Fuel Cell Research)

Industry Partners-Bldg. 566 & 19

UAV Center-Bldg.18

International Space University

Singularity University

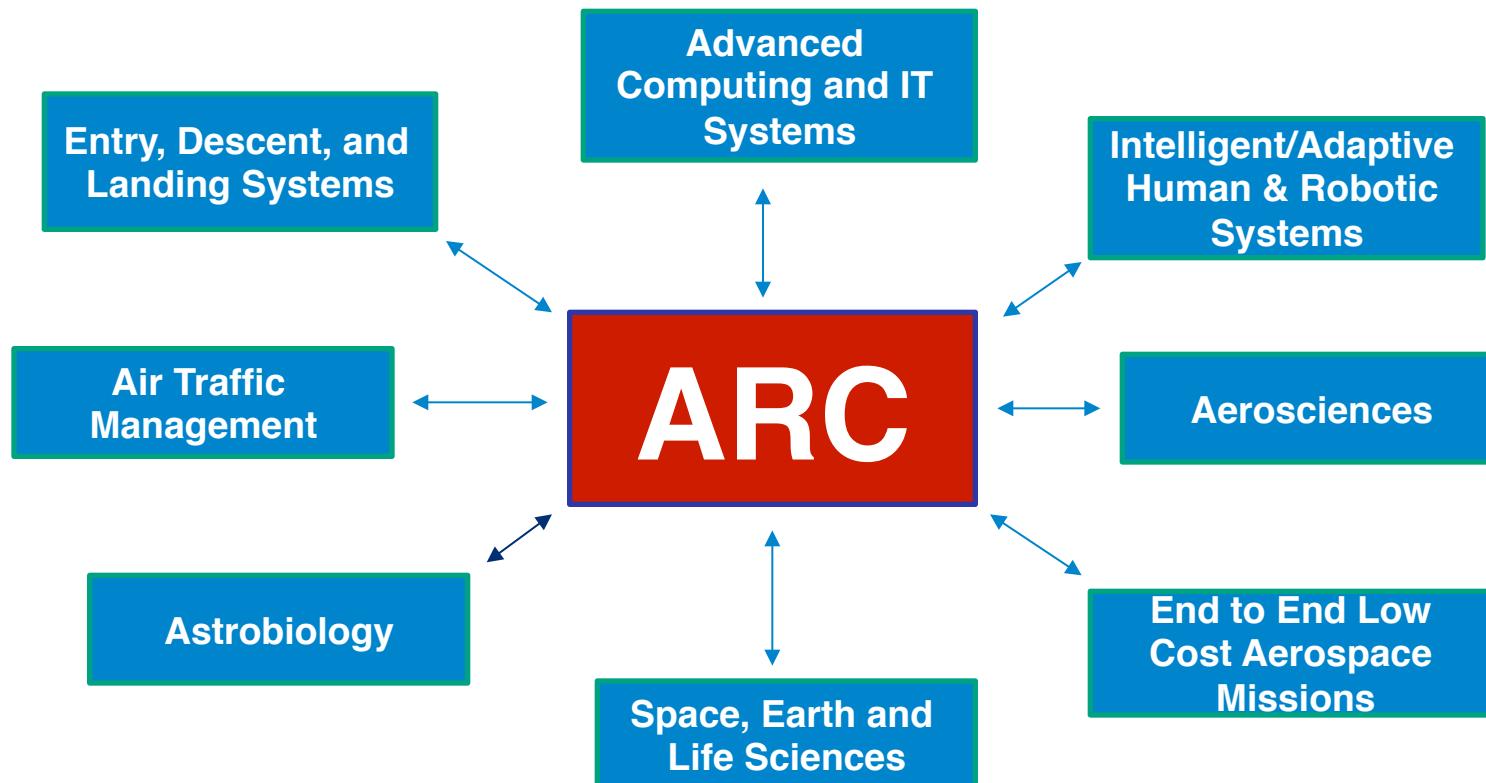




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Ames Core Competencies



Examples of Ames Research contributions to advanced Vertical Flight Aircraft

Rotary Wing



XH59A

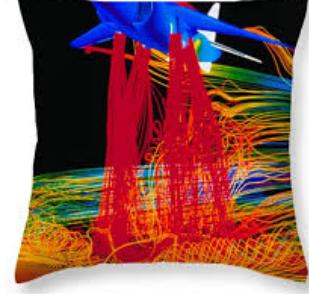
In Ground
Effect CFD

XV15



XV3

X-14



E-7A



YAV8
C



GD-VTOL
Fighter



Tilt Fan

Powered Lift

